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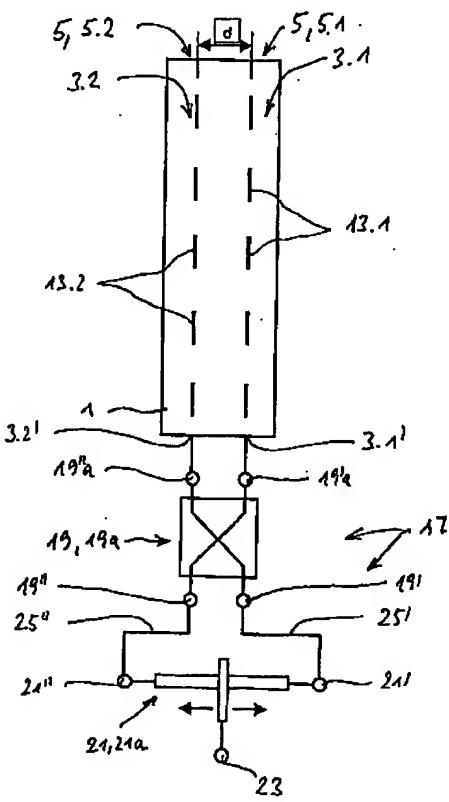
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- (81) Bestimmungsstaaten (soweit nicht anders angegeben, für jede verfügbare nationale Schutzrechtsart): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

*[Fortsetzung auf der nächsten Seite]*

(54) Title: ANTENNA ARRAY AND METHOD, PARTICULARLY FOR OPERATING THE SAME

(54) Bezeichnung: ANTENNENANORDNUNG SOWIE VERFAHREN INSbesondere ZU DEREN BETRIEB

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(57) Abstract: An improved antenna array comprises the following features: a network (17) is provided by means of which at least two radiator groups (3.1, 3.2) are provided with a signal ( $A_{in1}$ ,  $A_{in2}$ ) having an amplitude that can be adjusted relative each other. The network (17) comprises a phase adjustment device (21, 121) by means of which a supplied input signal ( $PS_{in}$ ) having the same intensity but different phase position can be divided up relative each other into two output signals ( $PS_{out1}$ ;  $PS_{out2}$ ). The array is further provided with a hybrid circuit (19, 119) by means of which the output signals ( $PS_{out1}$ ,  $PS_{out2}$ ) can be converted into hybrid output signals ( $H_{out1}$ ,  $H_{out2}$ ) which have a predefined phase position relative each other and whose amplitudes differ depending on the different phase positions in the phase adjustment device (21, 121).

(57) Zusammenfassung: Eine verbesserte Antennenanordnung weist folgende Merkmale auf: es ist ein Netzwerk (17) vorgesehen, worüber zumindest zwei Strahlergruppen (3.1, 3.2) ein Signal ( $A_{in1}$ ,  $A_{in2}$ ) mit relativ zueinander verstellbarer Amplitude zuführbar ist, das Netzwerk (17) umfasst eine Phasenverstelleinrichtung (21, 121), worüber ein zugeführtes Ein gangssignal ( $PS_{in}$ ) mit gleicher Intensität aber unterschiedlicher Phasenlage relativ zueinander auf zwei Ausgangssignale ( $PS_{out1}$ ;  $PS_{out2}$ ) aufteilbar ist, und dass ferner noch eine Hybridschaltung (19, 119) vorgesehen ist, worüber die Ausgangssignale ( $PS_{out1}$ ,  $PS_{out2}$ ) in Hybridausgangssignale ( $H_{out1}$ ,  $H_{out2}$ ) wandelbar sind, die eine fest vorgegebene Phasenlage zueinander aufweisen und deren Amplitude in Abhängigkeit der unterschiedlichen Phasenlagen in der Phasenverstelleinrichtung (21, 121) voneinander differieren.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/008800

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H01Q25/00 H01Q3/30 H01Q3/40 H01Q1/24

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 115 248 A (ROEDERER ANTOINE) 19 May 1992 (1992-05-19) column 2, lines 28-46 column 8, line 37 - column 9, line 14; figures 5,22	1-28
X	US 5 151 706 A (VAN T KLOOSTER CORNELIS ET AL) 29 September 1992 (1992-09-29) column 5, line 29 - column 7, line 5; figures 4-7	1,2,21
A	US 5 929 804 A (JONES TREVOR HOWAR PRICE ET AL) 27 July 1999 (1999-07-27) column 4, line 61 - column 6, line 17; figures 1,2	1-28 -/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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